

FILEID**STRPREFIX

M 2

SSSSSSSS SSSSSSSS TTTTTTTTTT RRRRRRRR PBBBBBPP RRRRRRRR EEEEEEEE FFFFFFFF IIIIIII XX XX
SSSSSSSS SSSSSSSS TTTTTTTTTT RRRRRRRR PBBBBBPP RRRRRRRR EEEEEEEE FFFFFFFF IIIIIII XX XX
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EE EE FF FF
SSSSSS SSSSSS TT RRRRRRRR PBBBBBPP RRRRRRRR EEEEEEEE FFFFFFFF IIIIIII XX XX
SSSSSS SSSSSS TT RRRRRRRR PBBBBBPP RRRRRRRR EEEEEEEE FFFFFFFF IIIIIII XX XX
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EE EE FF FF
SS TT RR RR PP PP RR RR EEEEEEEE FF FF
SSSSSSSS SSSSSSSS TT RR RR PP PP RR RR EEEEEEEE FF FF
SSSSSSSS SSSSSSSS TT RR RR PP PP RR RR EEEEEEEE FF FF
LL IIIII SSSSSSSS
LL IIIII SSSSSSSS
LL II SS
LLLLLLLLLL IIIII SSSSSSSS
LLLLLLLLLL IIIII SSSSSSSS

ST
1-

```
0001 0 MODULE STR$PREFIX (! Prefix a string to the beginning of the destination
0002 0
0003 0 IDENT = '1-007' ! File: STRPREFIX.B32 Edit: DG1007
0004 0
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 ****
0009 1 *
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0028 1 *
0029 1 *
0030 1 ****
0031 1
0032 1
0033 1 ++
0034 1 FACILITY: String support library
0035 1
0036 1 ABSTRACT:
0037 1 This routine prefixes the input string onto the beginning of the
0038 1 destination string. It will handle strings of any supported
0039 1 dtype or class.
0040 1
0041 1 ENVIRONMENT: User mode, AST level or not or mixed
0042 1
0043 1 AUTHOR: R. Will, CREATION DATE: 1-Dec-79
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 R. Will, 1-Dec-79 : VERSION 01
0048 1 1-001 - Original
0049 1 1-002 - String speedup, status from macros. RW 11-Jan-1980
0050 1 1-003 - Enhance to recognize additional classes of descriptors by
0051 1 using $STR$GET_LEN ADDR to extract length and address
0052 1 of 1st byte of data of source string. Remove string
0053 1 interlocking code. RKR 22-APR-81.
0054 1 1-004 - Fix bug in code where class_vs destination must be truncated.
0055 1 (non-overlap case).
0056 1 RKR 25-AUG-1981
0057 1 1-005 - Speed up code. RKR 7-OCT-1981.
```

: 58 0058 1 . 1-006 - Add support for class SO string descriptors. DG 3-Oct-1983.
: 59 0059 1 . 1-007 - Change class SO string descriptors to SB. DG 27-Feb-1984.
: 60 0060 1 .--
: 61 0061 1 .<BLF/PAGE>

```

63 0062 1 ! SWITCHES:
64 0063 1 !
65 0064 1 !
66 0065 1 !
67 0066 1 SWITCHES ADDRESSING MODE
68 0067 1 (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
69 0068 1 !
70 0069 1 !
71 0070 1 ! LINKAGES:
72 0071 1 !
73 0072 1 !
74 0073 1 REQUIRE 'RTLIN:STRLNK'; ! Use require file with string linkages
75 0258 1 !
76 0259 1 !
77 0260 1 ! TABLE OF CONTENTS:
78 0261 1 !
79 0262 1 !
80 0263 1 FORWARD ROUTINE
81 0264 1 STR$PREFIX; ! prefix the input string to the
82 0265 1 beginning of the destination string
83 0266 1 !
84 0267 1 !
85 0268 1 ! INCLUDE FILES:
86 0269 1 !
87 0270 1 !
88 0271 1 REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTS code
89 0366 1 REQUIRE 'RTLIN:STRMACROS'; ! use string macros to write code
90 1282 1 LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols
91 1283 1 !
92 1284 1 !
93 1285 1 ! MACROS : NONE
94 1286 1 !
95 1287 1 !
96 1288 1 !
97 1289 1 ! EQUATED SYMBOLS: NONE
98 1290 1 !
99 1291 1 !
100 1292 1 !
101 1293 1 ! PSECT DECLARATIONS
102 1294 1 !
103 1295 1 !
104 1296 1 DECLARE_PSECTS (STR);
105 1297 1 !
106 1298 1 !
107 1299 1 ! OWN STORAGE: NONE
108 1300 1 !
109 1301 1 !
110 1302 1 !
111 1303 1 ! EXTERNAL REFERENCES:
112 1304 1 !
113 1305 1 ! EXTERNAL LITERAL
114 1306 1 STR$_ILLSTRCLA, ! signal illegal class error
115 1307 1 STR$_TRU, ! warning, truncation
116 1308 1 STR$_NORMAL; ! successful append
117 1309 1 !
118 1310 1 ! EXTERNAL ROUTINE
119 1311 1 LIB$STOP; ! signal errors

```

```
121      1312 1 GLOBAL ROUTINE STR$PREFIX ( ! Prefix a string to the start of another
122      1313 1
123      1314 1           DEST_DESC,    ! pointer to destination descriptor
124      1315 1           SRC_DESC     ! pointer to source descriptor
125      1316 1
126      1317 1           ) =
127      1318 1
128      1319 1           +++
129      1320 1           FUNCTIONAL DESCRIPTION:
130      1321 1
131      1322 1           This routine takes a source string of any supported dtype and
132      1323 1           class, and prefixes that string to the beginning of the
133      1324 1           destination string, which may be of any supported class or
134      1325 1           dtype, except that it is impossible to add something to the
135      1326 1           beginning of a string having fixed length semantics so an error
136      1327 1           will always be signalled in that case
137      1328 1
138      1329 1           FORMAL PARAMETERS:
139      1330 1
140      1331 1           DEST_DESC.wt.dx   pointer to destination descriptor
141      1332 1           SRC_DESC.rt.dx   pointer to source descriptor
142      1333 1
143      1334 1           IMPLICIT INPUTS:
144      1335 1           NONE
145      1336 1
146      1337 1           IMPLICIT OUTPUTS:
147      1338 1           NONE
148      1339 1
149      1340 1
150      1341 1
151      1342 1           COMPLETION CODES:
152      1343 1
153      1344 1           STR$_NORMAL      Success
154      1345 1           STR$_TRU        Truncation occurred. Warning.
155      1346 1
156      1347 1           SIDE EFFECTS:
157      1348 1
158      1349 1           STR$_ILLSTRCLA may be signalled if the destination string has
159      1350 1           fixed length semantics or undefined class.
160      1351 1           Dynamic string space may be allocated or deallocated
161      1352 1
162      1353 1           --
163      1354 1
164      1355 2           BEGIN
165      1356 2
166      1357 2           LOCAL
167      1358 2           IN_LEN,          ! length of source string
168      1359 2           IN_ADDR,         ! address of 1st byte of source string
169      1360 2           RETURN_STATUS;   ! statuses from macros
170      1361 2
171      1362 2           MAP
172      1363 2           SRC_DESC : REF $STR$DESCRIPTOR,
173      1364 2           DEST_DESC : REF $STR$DESCRIPTOR;
174      1365 2
175      1366 2           RETURN_STATUS = 1; ! Assume success to follow
176      1367 2
177      1368 2           !+
```

```
178 1369 2 | Extract length and address of 1st data byte of source string.  
179 1370 2 | Signal if a fatal error results.  
180 1371 2 |  
181 1372 2 | $STR$GET_LEN_ADDR ( SRC_DESC, IN_LEN, IN_ADDR );  
182 1373 2 |  
183 1374 2 |+ algorithm differs based on the class of the destination descriptor  
184 1375 2 |  
185 1376 2 |  
186 1377 2 |  
187 1378 2 | CASE .DEST_DESC [DSC$B_CLASS]  
188 1379 2 | FROM DSC$K_CLASS_Z TO DSC$K_CLASS_SB OF  
189 1380 2 | SET  
190 1381 2 |  
191 1382 2 |+ dynamic destination strings  
192 1383 2 |*****  
193 1384 2 |  
194 1385 2 |  
195 1386 2 |  
196 1387 2 | [DSC$K_CLASS_D]:  
197 1388 3 | BEGIN  
198 1389 3 | IF  
199 L 1390 3 | %IF #BLISS (BLISS16) OR %BLISS (BLISS36)  
200 U 1391 3 | %THEN  
201 U 1392 3 | $STR$OVERLAP ( | except on VAX  
202 U 1393 3 | .DEST_DESC [DSC$A_POINTER], | If dest overlaps  
203 U 1394 3 | .DEST_DESC [DSC$W_LENGTH], | with where it will be  
204 U 1395 3 | CH$PLUS (.DEST_DESC [DSC$A_POINTER], | written  
205 U 1396 3 | .DEST_DESC [DSC$W_LENGTH]),  
206 U 1397 3 | .DEST_DESC [DSC$W_LENGTH])  
207 U 1398 3 |  
208 U 1399 3 | OR  
209 P 1400 3 | %FI  
210 P 1401 3 | $STR$OVERLAP ( | or if dest will be  
211 P 1402 3 | .IN_ADDR, | written on top of  
212 P 1403 3 | .IN_LEN, | source when moved  
213 P 1404 3 | CH$PLUS (.DEST_DESC [DSC$A_POINTER], .IN_ADDR),  
214 1405 4 | .DEST_DESC [DSC$W_LENGTH])  
215 OR 1406 3 |  
216 1407 3 | ! or if destination not  
217 P 1408 4 | large enough for  
218 P 1409 4 | prefix  
219 1410 4 | ($STR$NEED_ALLOC ( |  
220 1411 3 | .IN_ADDR + .DEST_DESC [DSC$W_LENGTH],  
221 1412 3 | ($STR$DYN_AL_LEN (DEST_DESC) ) )  
222 1413 4 | THEN | then allocate a temp  
223 1414 4 | | and use it for  
224 1415 4 | | building output string  
225 1416 4 | BEGIN  
226 1417 4 | LOCAL TEMP_DESC : $STR$descriptor;  
227 1418 4 |  
228 P 1419 5 | ! If allocate is successful, continue the operation.  
229 P 1420 5 | otherwise remember a fatal error  
230 1421 5 |  
231 1422 4 |  
232 1423 5 |  
233 1424 5 |  
234 1425 5 | ! move source to temp
```



```
284 1474 2 |+
285 1475 2 |+ Varying string destination
286 1476 2 |+ *****
287 1477 2 |-
288 1478 2 |
289 1479 2 | [DSC$K CLASS_VS]:
290 1480 3 | BEGIN
291 1481 3 | LOCAL
292 1482 3 | OUT_LEN                 | current destination length
293 1483 3 | OUT_ADDR,               | current pointer to destination
294 1484 3 | TOT_LEN;                | MIN of sum of IN_LEN + OUT_LEN
295 1485 3 |                        | and MAXSTRLEN
296 1486 3 |
297 1487 3 |
298 1488 3 |+ set up current length and address of 1st byte of data for
299 1489 3 | a varying string destination.
300 1490 3 |
301 1491 3 | OUT_LEN = .(DEST_DESC [DSC$A_POINTER])<0,16> ;
302 1492 3 | OUT_ADDR = .DEST_DESC [DSC$A_POINTER] + 2 ;
303 1493 3 | TOT_LEN = MIN ( .IN_LEN + .OUT_LEN,
304 1494 3 |                        | .DEST_DESC [DSC$W_MAXSTRLEN]) ;
305 1495 3 |
306 1496 3 |
307 L 1497 3 | IF
308 U 1498 3 | %IF %BLISS (BLISS16) OR %BLISS (BLISS36)
309 U 1499 3 | %THEN
310 U 1500 3 | $STR$OVERLAP (               | except on VAX
311 U 1501 3 |                        | If dest overlaps
312 U 1502 3 |                        | with where it will be
313 U 1503 3 |                        | written
314 U 1504 3 |                        | CH$PLUS (.OUT_ADDR,
315 U 1505 3 |                        |                        | .OUT_LEN,
316 U 1506 3 |                        |                        | .OUT_LEN)
317 P 1507 3 | OR
318 P 1508 3 | %FI
319 P 1509 3 | $STR$OVERLAP (               | or if dest will be
320 P 1510 3 |                        | written on top of
321 P 1511 3 |                        | source when moved
322 1512 4 |
323 1513 3 | THEN                      | then allocate a temp
324 1514 3 |                        | and use it for
325 1515 3 |                        | building output string
326 1516 4 | BEGIN                    | Overlap case
327 1517 4 | LOCAL TEMP_DESC : $STR$DESCRIPTOR;
328 1518 4 | |
329 1519 4 |                        | If allocate is successful, continue the operation,
330 1520 4 |                        | otherwise remember a fatal error
331 1521 4 |
332 P 1522 5 | IF (RETURN STATUS = $STR$ALLOCATE (
333 P 1523 5 |                        | .IN_LEN + .OUT_LEN,
334 1524 5 |                        | TEMP_DESC))
335 1525 4 | THEN                    | copy via temp descr after succ alloc
336 1526 5 | BEGIN                    | move source to temp
337 1527 5 |                        | CH$MOVE (.IN_LEN, .IN_ADDR,
338 1528 5 |
339 1529 5 |
340 1530 5 |
```

```
341      1531 5          .TEMP_DESC [DSC$A_POINTER]);  
342      1532 5  
343      1533 5  
344      1534 5  
345      1535 5  
346      1536 5  
347      1537 5  
348      1538 5  
349      1539 5  
350      1540 5  
351      1541 5  
352      1542 5  
353      1543 5  
354      1544 5  
355      1545 5  
356      1546 5  
357      1547 5  
358      1548 5  
359      1549 5  
360      1550 5  
361      1551 5          RETURN_STATUS = $STR$DEALLOCATE (TEMP_DESC);  
362      1552 4          END;           ! copy via temp descr after succ alloc  
363      1553 4          ! Overlap case  
364      1554 4  
365      1555 3  
366      1556 3  
367      1557 4          BEGIN           ! non-overlap case  
368      1558 4  
369      1559 4  
370      1560 4  
371      1561 4          CH$MOVE (MIN ( .OUT_LEN,  
372      1562 4              MAX ( .DEST_DESC [DSC$W_MAXSTRLEN] - .IN_LEN,  
373      1563 4                  0)),  
374      1564 4          .OUT_ADDR,  
375      1565 4          CH$P[US (.OUT_ADDR,  
376      1566 4              .IN_[EN]));  
377      1567 4  
378      1568 4  
379      1569 4  
380      1570 4          ! move source in front of it  
381      1571 4  
382      1572 4          CH$MOVE (MIN (.IN_LEN,  
383      1573 4              .DEST_DESC [DSC$W_MAXSTRLEN]),  
384      1574 4              .IN_ADDR,  
385      1575 4              .OUT_ADDR);  
386      1576 4  
387      1577 3          END;           ! non-overlap case  
388      1578 3  
389      1579 3  
390      1580 3          ! readjust length of output -- the CURLEN field  
391      1581 3          (.DEST_DESC [DSC$A_POINTER])<0,16> = .TOT_LEN ;  
392      1582 3  
393      1583 3  
394      1584 3  
395      1585 3  
396      1586 3  
397      1587 3          ! if truncation occurred in copying, make a note of it  
                      IF .IN_LEN + .OUT_LEN GTRU .DEST_DESC [DSC$W_MAXSTRLEN]
```

STR\$PREFIX
1-007

1 3
16-Sep-1984 01:46:15
14-Sep-1984 12:40:13

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRPREFIX.B32;1

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: 398 1588 3
: 399 1589 3
: 400 1590 2

THEN RETURN_STATUS = STR\$_TRU ;
END: ! of DSC\$K_CLASS_VS

```
402      1591 2  !+
403      1592 2  | all other classes of descriptors describe strings that can't be
404      1593 2  | prefixed or are unsupported classes, or are unknown classes.
405      1594 2  |
406      1595 2  [INRANGE, OUTRANGE]:
407      1596 2  RETURN_STATUS = STR$_ILLSTRCLA;
408      1597 2  TES:
409      1598 2
410      1599 2  $STR$SIGNAL_FATAL (RETURN_STATUS);          | signal severe errors
411      1600 2  RETURN .RETURN_STATUS;
412      1601 1  END;                                | End of STR$PREFIX
```

```

.TITLE STR$PREFIX
.IDENT \1-007\

.EXTRN STR$_ILLSTRCLA, STR$_TRU
.EXTRN STR$NORMAL, LIB$STOP
.EXTRN STR$ANALYZE_SDESC_R1
.EXTRN STRSSINIT, STRSSV_INIT
.EXTRN STRSSALLOC_SHORT
.EXTRN STRSSQ_SHORT_Q, LIB$GET_VM
.EXTRN STRS_INSVIRMEM, STRSSMOVQ_R1
.EXTRN LIB$FREE_VM, STR$_FATINTERR

.PSECT _STR$CODE,NOWRT, SHR, PIC,2

.ENTRY STR$PREFIX, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 1312
R10,R11
SUBL2 #24, SP
MOVL #1, RETURN STATUS ; 1366
MOVL SRC DESC, R0 ; 1372
CMPB 3(R0), #2
BGTRU 1S
MOVZWL (R0), IN_LEN
MOVL 4(R0), IN_ADDR
BRB 2S
JSB STR$ANALYZE_SDESC_R1
MOVQ R0, R9
MOVL DEST DESC, R8 ; 1378
CASEB 3(R8), #0, #15
.WORD 4$-3$,-
4$-3$,-
5$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
35$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-
4$-3$,-

```


		51	51	FE	52	D0	001D8	MOVL	R2, STRING_BLOCK	
					A1	3C	001DB	MOVZWL	-2(STRING_BLOCK), ALLOC_LENGTH	
					51	D7	001DF	DECL	R1	
					07	8A	001E1	BICB2	#7 R1	
		00	51	00000000G0041	9E	001E4	MOVAB	STRSSQ SHORT Q[R1], INSQUE_ADDR		
					62	0E	001EC	INSQUE	(R2), @0(INSQUE_ADDR)	
					1C	11	001F0	BRB	32\$	
		08	AE	14	AE	9F	001F2	31\$:	PUSHAB TEMP_DESC+4	
					14	AE	3C	001F5	MOVZWL TEMP_DESC, 8(SP)	
					08	AE	9F	001FA	PUSHAB 8(SP)	
		00000000G	00		02	FB	001FD	CALLS	#2, LIB\$FREE_VM	
			07		50	E8	00204	BLBS	RETURN_STATUS, 32\$	
			50	00000000G	8F	D0	00207	MOVL	#STR\$ FATINTER, RETURN_STATUS	
			58		50	D0	0020E	32\$:	MOVL RETURN_STATUS, RETURN_STATUS	
					OC	11	00211	BRB	34\$	
	6946	66	66		68	28	00213	33\$:	MOVC3 (R8), (R6), (IN_LEN)[R6]	1389
		6A			59	28	00218	MOVC3	IN_LEN, (IN_ADDR), (R6)	1459
		68			5A	A0	0021C	ADDW2	IN_ADDR, (R8)	1464
				0170	31	0021F	34\$:	BRW 57\$	1470	
		56	04	57	04	B8	3C	00222	MOVZWL #4(R8), OUT_LEN	1378
					57	C1	00226	ADDL3	#2, 4(R8), OUT_ADDR	1491
		52		59		C1	00228	ADDL3	OUT_LEN, IN_LEN, R2	1492
	50			50		52	D0	0022F	MOVL R2, R0	1493
					50	ED	00232	CMPZV	#0, #16, (R8), R0	1494
		68		10		00		BGEQ	36\$	
					03	18	00237	MOVZWL (R8), R0		
			50	04	50	68	3C	00239	MOVL R0, TOT_LEN	
					AE	D0	0023C	36\$:	ADDL3 IN_ADDR, OUT_ADDR, R0	1493
	50		56		50	5A	C1	00240	CMPL IN_ADDR, R0	1512
					50	D1	00244	BGEQU 37\$		
		51			09	1E	00247	ADDL3 IN_LEN, IN_ADDR, R1		
			51		5A	C1	00249	CMPL R0, R1		
					51	D1	0024D	BRB 38\$		
					50	06	11	00250	ADDL2 OUT_LEN, R0	
					50	57	C0	00252	CMPL IN_ADDR, R0	
					03	19	00258	BLSS 39\$		
		00000000G	07	00000000G	00EF	31	0025A	BRW 52\$		
			00		00	E8	0025D	39\$:	BLBS STRSSV INIT, 40\$	
			51	00000000G	00	FB	00264	CALLS #0, STR\$INIT		
		000000FO	8F		8F	D0	0026B	40\$:	MOVL #STR\$ NORMAL, RETURN_STATUS	
					52	D1	00272	CMPL R2, #240		
					47	1A	00279	BGTRU 46\$		
					52	D5	0027B	TSTL R2		
					04	12	0027D	BNEQ 41\$		
					53	D4	0027F	CLRL TEMP		
					31	11	00281	BRB 45\$		
			50	FF	A2	9E	00283	41\$:	MOVAB -1(R2), R0	
					50	07	8A	00287	BICB2 #7, R0	
			54	00000000G0040	9E	0028A	MOVAB STRSSQ SHORT Q[R0], REMQUE_ADDR			
				53	00	B4	0F	00292	42\$:	@0(REMQUE_ADDR), TEMP
					05	1D	00296	BVS 43\$		
			52		01	D0	00298	MOVL #1 ALLOC_DONE		
					0F	11	0029B	BRB 44\$		
					52	D4	0029D	43\$:	CLRL ALLOC_DONE	
		00000000G	6749		9F	0029F		PUSHAB (OUT [EN][IN LEN])		
			00		01	FB	002A2	CALLS #1, STR\$ALLOC SHORT		
			51		50	D0	002A9	MOVBL R0, RETURN_STATUS		

10	AE	14	05 34 2F AE 59	52 51 DE 51 53 57 24 11 A1 002B8 002B7 002C0 11 002C0	E8 002AC 44\$: E9 002AF 45\$: E9 002B2 45\$: D0 002B7 45\$: A1 002BB 46\$: 11 002C0 46\$: AE 002C2 46\$: D0 002C5 46\$: AE 002C9 46\$: FB 002CC 46\$: D0 002D3 46\$: E8 002D6 46\$: D0 002D9 46\$: 11 002E0 46\$: B0 002E2 47\$: D0 002E6 48\$: E9 002E9 48\$: D0 002EC 48\$: 59 28 002F0 48\$: 57 28 002F4 48\$: AE 28 002F9 48\$: D0 002FE 48\$: D5 00305 48\$: 3E 13 00307 48\$: B1 00309 48\$: 1A 1A 0030F 48\$: 58 D0 00311 48\$: A1 3C 00314 48\$: 51 D7 00318 48\$: 07 8A 0031A 48\$: 9E 0031D 48\$: 68 0E 00325 48\$: 1C 11 00329 48\$: 9F 0032B 49\$: 3C 0032E 49\$: 9F 00333 49\$: 02 FB 00336 49\$: 50 E8 0033D 49\$: 8F D0 00340 49\$: 50 D0 00347 50\$: 2B 11 0034A 51\$: 68 3C 0034C 52\$: 59 C2 0034F 52\$: 02 18 00352 52\$: 50 D4 00354 52\$: 57 D0 00356 53\$: 51 D1 00359 53\$: 03 15 0035C 53\$: 50 D0 0035E 53\$: 51 28 00361 54\$: 59 D0 00366 54\$: 00 ED 00369 54\$: 03 18 0036E 54\$: 68 3C 00370 54\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$:	BLBS BLBC BRB BLBC MOVL ADDW3 BRB PUSHAB MOVL PUSHAB CALLS MOVL BLBS MOVL #STRS_INSIRMEM, RETURN_STATUS BRB MOVW MOVL BLBC MOVL TEMP_DESC+4, R8 IN_LEN, (IN_ADDR), (R8) OUT_LEN, (OUT_ADDR), (IN_LEN)[R8] TOT_LEN, (R8), (OUT_ADDR) #STRS_NORMAL, RETURN_STATUS R8 50\$ TEMP_DESC, #240 49\$ R8, STRING_BLOCK -2(STRING_BLOCK), ALLOC_LENGTH R1 #7, R1 STR\$SQ SHORT Q[R1], INSQUE_ADDR (R8), @0(INSQUE_ADDR) 50\$ TEMP_DESC+4 TEMP_DESC, 4(SP) 4(SP) #2, LIB\$FREE VM RETURN STATUS, 50\$ #STRS_FATINTERR, RETURN_STATUS RETURN_STATUS, RETURN_STATUS 56\$ (R8), R0 IN_LEN, R0 53\$ CLRL R0 OUT_LEN, R1 R1-@0 54\$ R0, R1 R1, (OUT_ADDR), (IN_LEN)[OUT_ADDR] IN_LEN, R0 #0 #16, (R8), R0 55\$ (R8), R0 R0, (IN_ADDR), (OUT_ADDR) DEST_DESC, R1	ALLOC_DONE, 45\$ RETURN_STATUS, 48\$ 42\$ RETURN STATUS, 48\$ TEMP, TEMP DESC+4 OUT_LEN, IN_LEN, TEMP_DESC 48\$ TEMP_DESC+4 R2, Z(SP) 4(SP) #2, LIB\$GET VM R0, RETURN_STATUS RETURN STATUS, 47\$ #STRS_INSIRMEM, RETURN_STATUS 48\$ P2, TEMP_DESC RETURN_STATUS, RETURN_STATUS RETURN_STATUS, 51\$ TEMP_DESC+4, R8 IN_LEN, (IN_ADDR), (R8) OUT_LEN, (OUT_ADDR), (IN_LEN)[R8] TOT_LEN, (R8), (OUT_ADDR) #STRS_NORMAL, RETURN_STATUS R8 50\$ TEMP_DESC, #240 49\$ R8, STRING_BLOCK -2(STRING_BLOCK), ALLOC_LENGTH R1 #7, R1 STR\$SQ SHORT Q[R1], INSQUE_ADDR (R8), @0(INSQUE_ADDR) 50\$ TEMP_DESC+4 TEMP_DESC, 4(SP) 4(SP) #2, LIB\$FREE VM RETURN STATUS, 50\$ #STRS_FATINTERR, RETURN_STATUS RETURN_STATUS, RETURN_STATUS 56\$ (R8), R0 IN_LEN, R0 53\$ CLRL R0 OUT_LEN, R1 R1-@0 54\$ R0, R1 R1, (OUT_ADDR), (IN_LEN)[OUT_ADDR] IN_LEN, R0 #0 #16, (R8), R0 55\$ (R8), R0 R0, (IN_ADDR), (OUT_ADDR) DEST_DESC, R1	1531 1539 1546 1551 1496 1563 1562 1567 1573 1575 1582	
68	6948	66	00000000G	00 51 09 51 00000000G	02 50 50 50 04	F0 002E0 47\$: D0 002E6 48\$: E9 002E9 48\$: D0 002EC 48\$: 59 28 002F0 48\$: 57 28 002F4 48\$: AE 28 002F9 48\$: D0 002FE 48\$: 58 D5 00305 48\$: 3E 13 00307 48\$: B1 00309 48\$: 1A 1A 0030F 48\$: 58 D0 00311 48\$: A1 3C 00314 48\$: 51 D7 00318 48\$: 07 8A 0031A 48\$: 9E 0031D 48\$: 68 0E 00325 48\$: 1C 11 00329 48\$: 9F 0032B 49\$: 3C 0032E 49\$: 9F 00333 49\$: 02 FB 00336 49\$: 50 E8 0033D 49\$: 8F D0 00340 49\$: 50 D0 00347 50\$: 2B 11 0034A 51\$: 68 3C 0034C 52\$: 59 C2 0034F 52\$: 02 18 00352 52\$: 50 D4 00354 52\$: 57 D0 00356 53\$: 51 D1 00359 53\$: 03 15 0035C 53\$: 50 D0 0035E 53\$: 51 28 00361 54\$: 59 D0 00366 54\$: 00 ED 00369 54\$: 03 18 0036E 54\$: 68 3C 00370 54\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$:	P2, TEMP_DESC RETURN_STATUS, RETURN_STATUS RETURN_STATUS, 51\$ TEMP_DESC+4, R8 IN_LEN, (IN_ADDR), (R8) OUT_LEN, (OUT_ADDR), (IN_LEN)[R8] TOT_LEN, (R8), (OUT_ADDR) #STRS_NORMAL, RETURN_STATUS R8 50\$ TEMP_DESC, #240 49\$ R8, STRING_BLOCK -2(STRING_BLOCK), ALLOC_LENGTH R1 #7, R1 STR\$SQ SHORT Q[R1], INSQUE_ADDR (R8), @0(INSQUE_ADDR) 50\$ TEMP_DESC+4 TEMP_DESC, 4(SP) 4(SP) #2, LIB\$FREE VM RETURN STATUS, 50\$ #STRS_FATINTERR, RETURN_STATUS RETURN_STATUS, RETURN_STATUS 56\$ (R8), R0 IN_LEN, R0 53\$ CLRL R0 OUT_LEN, R1 R1-@0 54\$ R0, R1 R1, (OUT_ADDR), (IN_LEN)[OUT_ADDR] IN_LEN, R0 #0 #16, (R8), R0 55\$ (R8), R0 R0, (IN_ADDR), (OUT_ADDR) DEST_DESC, R1	1531 1539 1546 1551 1496 1563 1562 1567 1573 1575 1582	
50	6946	68	00000000G	00 50 50 50 04	02 50 50 50 04	F0 002E0 47\$: D0 002E6 48\$: E9 002E9 48\$: D0 002EC 48\$: 59 28 002F0 48\$: 57 28 002F4 48\$: AE 28 002F9 48\$: D0 002FE 48\$: 58 D5 00305 48\$: 3E 13 00307 48\$: B1 00309 48\$: 1A 1A 0030F 48\$: 58 D0 00311 48\$: A1 3C 00314 48\$: 51 D7 00318 48\$: 07 8A 0031A 48\$: 9E 0031D 48\$: 68 0E 00325 48\$: 1C 11 00329 48\$: 9F 0032B 49\$: 3C 0032E 49\$: 9F 00333 49\$: 02 FB 00336 49\$: 50 E8 0033D 49\$: 8F D0 00340 49\$: 50 D0 00347 50\$: 2B 11 0034A 51\$: 68 3C 0034C 52\$: 59 C2 0034F 52\$: 02 18 00352 52\$: 50 D4 00354 52\$: 57 D0 00356 53\$: 51 D1 00359 53\$: 03 15 0035C 53\$: 50 D0 0035E 53\$: 51 28 00361 54\$: 59 D0 00366 54\$: 00 ED 00369 54\$: 03 18 0036E 54\$: 68 3C 00370 54\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$: 50 28 00373 55\$: 51 04 AC D0 00377 56\$:	P2, TEMP_DESC RETURN_STATUS, RETURN_STATUS RETURN_STATUS, 51\$ TEMP_DESC+4, R8 IN_LEN, (IN_ADDR), (R8) OUT_LEN, (OUT_ADDR), (IN_LEN)[R8] TOT_LEN, (R8), (OUT_ADDR) #STRS_NORMAL, RETURN_STATUS R8 50\$ TEMP_DESC, #240 49\$ R8, STRING_BLOCK -2(STRING_BLOCK), ALLOC_LENGTH R1 #7, R1 STR\$SQ SHORT Q[R1], INSQUE_ADDR (R8), @0(INSQUE_ADDR) 50\$ TEMP_DESC+4 TEMP_DESC, 4(SP) 4(SP) #2, LIB\$FREE VM RETURN STATUS, 50\$ #STRS_FATINTERR, RETURN_STATUS RETURN_STATUS, RETURN_STATUS 56\$ (R8), R0 IN_LEN, R0 53\$ CLRL R0 OUT_LEN, R1 R1-@0 54\$ R0, R1 R1, (OUT_ADDR), (IN_LEN)[OUT_ADDR] IN_LEN, R0 #0 #16, (R8), R0 55\$ (R8), R0 R0, (IN_ADDR), (OUT_ADDR) DEST_DESC, R1	1531 1539 1546 1551 1496 1563 1562 1567 1573 1575 1582	

		04	B1	04	AE	B0	0037B	MOVW	TOT_LEN, #4(R1)		
50	50	59	10	00	C1	00380	ADDL3	OUT_LEN, IN_LEN, R0		1587	
				07	ED	00384	CMPZV	#0, #16, (RT), R0			
		58	00000000G	8F	00	00388	BGEQU	57\$			
04	58	10		5B	E8	00392	57\$:	MOVL	#STR\$, TRU, RETURN_STATUS		1588
		03		00	ED	00395	BLBS	RETURN_STATUS, 58\$		1599	
				09	12	0039A	CMPZV	#0, #3, RETURN_STATUS, #4			
		00000000G	00	5B	DD	0039C	BNEQ	58\$			
				01	FB	0039E	PUSHL	RETURN_STATUS			
				50	DD	003A5	CALLS	#1, LIB\$STOP			
				04	003A8	58\$:	MOVL	RETURN_STATUS, R0		1600	
							RET			1601	

; Routine Size: 937 bytes, Routine Base: _STR\$CODE + 0000

: 413 1602 1 END !End of module
: 414 1603 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	937	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Symbols			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_255\$DUA28:[SYSLIB]STARLET.L32;1	9776	11	0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:STRPREFIX/OBJ=OBJ\$:STRPREFIX MSRC\$:STRPREFIX/UPDATE=(ENH\$:STRPREFIX)

Size: 937 code + 0 data bytes
 Run Time: 00:14.2
 Elapsed Time: 00:54.9
 Lines/CPU Min: 6782
 Lexemes/CPU-Min: 37117
 Memory Used: 294 pages

STR\$PREFIX
1-007

: Compilation Complete

16-Sep-1984 01:46:15 VAX-11 Bliss-32 v4.0-742

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ST
1-

0215 AH-BT13A-SE
VAX/VMS V4.0

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MDL

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REQ

ISDSORT
LIS

STRPREFIX
LIS

TIRAU
REQ

ISGENC
REQ

DATBAS
LIS